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MICU2 Knockdown 293T cell line, Heterozygous

Catalog No.: RM50185

Basic Information

Catalog No.
RM50185

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Background

Enables protein heterodimerization activity. Involved in calcium import into the mitochondrion and negative regulation of mitochondrial calcium ion concentration. Located in mitochondrial inner membrane and mitochondrial intermembrane space. Part of uniplex complex.

Gene Information

Gene Symbol
MICU2

Species
Human

Gene ID
221154

Swiss Prot
Q8IYU8

Synonyms
EFHA1; 1110008L20Rik; MICU2

Product Information

Description
MICU2 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:105bp deletion in exon1
Allele-2:110bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Contact

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Sequencing data

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WT    GGCGGAAAACTGCG**********CCGCGTCAGTGTTG
Mut   GGCGGAAAACTGCG***Deletion***CCGCGTCAGTGTTG
Allele-1:   105bp deletion in exon1

WT    GGCGGAAAACTGCG**********TCAGTGTTGCGGCG
Mut   GGCGGAAAACTGCG***Deletion***TCAGTGTTGCGGCG
Allele-2:   110bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and MICU2 knockdown (KD) 293T cells, using sanger sequencing.